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017575.0854

PATENT APPLICATION  
10/611,564

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Kenneth R. Hall, et al.  
Serial No.: 10/611,564  
Filed: July 1, 2003  
Group No.: 1621  
Examiner: Unknown  
Title: METHOD FOR CONVERTING NATURAL  
GAS TO LIQUID HYDROCARBONS

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313.1450

CERTIFICATE OF MAILING  
BY EXPRESS MAIL

I hereby certify that this communication is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" under 37 C.F.R. § 1.10 on the date indicated below and is addressed to Commissioner For Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

*Willie Jiles*  
Willie Jiles

Date: June 18, 2004

Exp. Mail Receipt No. EV 322189023 US

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

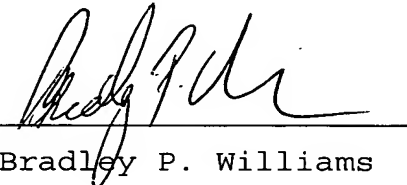
Applicants respectfully request, pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, that the references listed on the attached PTO-1449 form, and previously cited in U.S. Application Serial No. 09/803,122, filed March 9, 2001, now U.S. Patent No. 6,602,920, by Applicants and entitled "Method for Converting Natural Gas to Liquid Hydrocarbons," be considered and cited in the examination of the above-identified continuation patent application. Pursuant to 37 C.F.R. § 1.98(d), copies of these

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references are not being furnished. Furthermore, pursuant to 37 C.F.R. § 1.97(h), no representation is made that these references qualify as prior art or that these references are material to the patentability of the present application.

Pursuant to 37 C.F.R. § 1.97(b), no fee is believed due. If, however, Applicants have overlooked the need for a fee, the Commissioner is hereby authorized to charge any underpayment to Deposit Account No. 02-0384 of Baker Botts L.L.P.

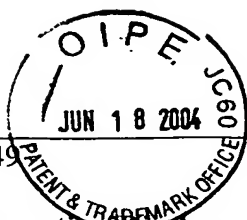
Respectfully submitted,  
BAKER BOTTS L.L.P.  
Attorneys for Applicants



Bradley P. Williams  
Registration No. 40,227

Dated: 6/18/04  
2001 Ross Avenue  
Dallas, TX 75201-2980  
(214) 953-6447

Customer No.: 05073



PTO-1449 <b>Information Disclosure Citation In an Application</b>	Application No. 10/611,564	Applicant(s) Kenneth R. Hall, et al.	
	Docket Number 017575.0854	Group Art Unit 1621	Filing Date July 1, 2003

## U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	A	1,023,783	04/1912	Knapp			
	B	1,229,886	06/1917	Cherry			
	C	1,773,611	08/1930	Banck			
	D	1,800,586	04/1931	Youker			
	E	1,880,307	10/1932	Wulff			
	F	1,904,426	04/1933	Eisenhut			
	G	1,917,627	07/1933	Wulff			
	H	1,966,779	07/1934	Wulff	260	170	
	I	Re 19,500	3/1935	Youker	196	10	
	J	Re 19,794	12/1935	Banck et al.	260	170	
	K	2,028,014	01/1936	Reinecke	204	31	
	L	2,037,056	04/1936	Wulff	260	170	
	M	2,080,931	05/1937	Rose	240	31	
	N	2,160,170	05/1939	Martin et al.	260	679	
	O	2,328,864	09/1943	Throckmorton	196	10	
	P	2,475,282	7/1949	Hasche	23	209.4	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	Q	0289391	03/1990	EP	C07C	2/76		
	R	0435591A2	12/1990	EP	C07C	11/24		

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
	S	A. Malek, et al., "Hydrogen Purification from Refinery Fuel Gas by Pressure Swing Adsorption," <i>AIChE Journal</i> , Vol. 44, No. 9, Sep. 1998, pp. 1985-1992.	09/1998
	T	Marshall Sittig, "Acetylene Processes and Products," <i>Chemical Process Review</i> , No. 22, 1968, 229 pages.	1968
	U	L. Bromberg, et al., "Plasma Reforming of Methane," <i>Energy &amp; Fuels</i> , Vol. 12, No. 1, 1998, pp. 11-18	1998
	V	Michael J. Corke, "GTL Technologies Focus on Lowering Cost," <i>Oil &amp; Gas Journal</i> , Sep. 21, 1998, pp. 71-77	09/21/1998

EXAMINER

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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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PTO-1449	Application No. 10/611,564		Applicant(s) Kenneth R. Hall, et al.	
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**Information Disclosure Citation  
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**U.S. PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	W	2,550,089	04/1951	Schlesman	204	171	
	X	2,558,861	07/1951	Liggett	23	288	
	Y	2,645,673	07/1953	Hasche	260	679	
	Z	2,675,294	04/1954	Keith	23	1	
	AA	2,714,126	07/1955	Keith	260	679	
	BB	2,751,424	06/1956	Hasche	260	679	
	CC	2,768,223	10/1956	Williams et al.	260	679	
	DD	2,986,505	05/1961	Lauer et al.	204	156	
	EE	3,156,733	11/1964	Happel et al.	260	679	
	FF	3,168,592	02/1965	Cichelli et al.	260	679	
	GG	3,262,757	07/1966	Bodmer	32	284	
	HH	3,283,028	11/1966	Bergstrom et al.	260	683	
	II	3,320,146	05/1967	Neely, Jr.	204	171	
	JJ	3,389,189	06/1968	Hirayama et al.	260	679	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	KK							

		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
	LL	Michael J. Corke, "Economics Favor GTL Projects with Condensate Coproduction," <i>Oil &amp; Gas Journal</i> , Sep. 28, 1998, pp. 96-101	09/28/1998
	MM	Alan H. Singleton, "Advances Make gas-to-liquids Process Competitive for Remote Locations," <i>Oil &amp; Gas Journal</i> , Aug. 4, 1997, pp. 68-72	08/04/1997
	NN	T. Kodama, et al., "High-Temperature Conversion of CH <sub>4</sub> to C <sub>2</sub> -Hydrocarbons and H <sub>2</sub> Using a Redox System of Metal Oxide," <i>Energy &amp; Fuels</i> , Vol. 11, No. 6, 1997, pp. 1257-1263	1997
	OO	S.H. Bauer, et al., "Upgrading of Methane Under Homogeneous Thermal Conditions: An Environmental and Economic Imperative," <i>Energy &amp; Fuels</i> , Vol. 11, 1997, pp. 1204-1218	1997
	PP	"A —Liquefied Natural Gas as a Heavy Vehicle Fuel," <i>Commerce Business Daily</i> , Jul. 17, 1997	07/17/1997
	QQ	Lance L. Lobban, et al., "Oxidative Coupling of Methane Using an AC Electric Discharge," <i>American Institute of Chemical Engineers 1996 Annual Meeting, Session 37, Paper 37f</i>	1996
	RR	D.Q. Kern, "Process Heat Transfer," McGraw-Hill Book Co., New York (1950)	1950
	SS	PCT International Search Report, Application No. PCT/US02/07183, Oct. 2, 2002	10/02/2002

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		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	TT	3,409,695	11/1968	Sennewald et al.	260	679	
	UU	3,622,493	11/1971	Crusco	204	323	
	VV	3,663,394	05/1972	Kawahara	204	168	
	WW	3,674,668	07/1972	Bjornson et al.	204	171	
	XX	3,697,612	10/1972	Maniero et al.	260	679	
	YY	3,703,460	11/1972	Shair et al.	204	327	
	ZZ	4,014,947	03/1977	Volodin et al.	C07C	21/02	
	AAA	4,128,595	12/1978	Montgomery	585	261	
	BBB	4,309,359	01/1982	Pinto	518	705	
	CCC	4,336,045	06/1982	Saunders et al.			
	DDD	4,367,363	01/1983	Katz et al.	585	809	
	EEE	4,378,232	03/1983	Peuckert et al.	48	210	
	FFF	4,424,401	01/1984	White et al.	585	416	
	GGG	4,492,591	01/1985	O'Reilly	62	632	
	HHH	4,497,970	02/1985	Young	585	417	
	III	4,513,164	04/1985	Olah	585	700	
	JJJ	4,566,961	01/1986	Diaz et al.	204	168	
	KKK	4,575,383	03/1986	Lowther et al.	48	212	
	LLL	4,588,850	05/1986	Mueller et al.	585	539	
	MMM	4,704,496	11/1987	Paparizos et al.	585	500	

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	PPP	4,705,906	11/1987	Brophy et al.	585	262	
	QQQ	4,705,908	11/1987	Gondouin	585	500	
	RRR	4,757,787	07/1988	Risitano et al.	123	25	
	SSS	4,761,515	08/1988	Gondouin	585	500	
	TTT	4,795,536	01/1989	Young et al.	424	422	
	UUU	4,797,185	01/1989	Polak et al.	205	637	
	VVV	4,822,940	04/1989	Leff et al.	585	415	
	WWW	4,906,800	03/1990	Henry et al.	585	260	
	XXX	4,950,821	08/1990	Ratnasamy et al.	585	310	
	YYY	4,952,743	08/1990	Come	585	541	
	ZZZ	4,973,776	11/1990	Allenger et al.	585	310	
	AAAA	4,973,786	11/1990	Karra	585	500	
	BBBB	4,981,829	01/1991	Shutt et al.	502	202	
	CCCC	5,012,029	04/1991	Han et al.	585	500	
	DDDD	5,015,349	05/1991	Suib et al.	204	168	
	EEEE	5,019,355	05/1991	Sackinger	422	186.04	
	FFFF	5,026,944	06/1991	Allenger et al.	585	500	
	GGGG	5,053,575	10/1991	Nikravech et al.	585	500	
	HHHH	5,073,666	12/1991	Zemanian et al.	585	734	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	KKKK	5,118,893	06/1992	Timmons et al.	585	416	
	LLLL	5,131,993	07/1992	Suib et al.	204	168	
	MMMM	5,138,113	08/1992	Juguin et al.	585	322	
	NNNN	5,181,998	01/1993	Murphy et al.	204	157.15	
	OOOO	5,205,912	04/1993	Murphy	204	157.15	
	PPPP	5,205,915	04/1993	Ravella et al.	204	157.15	
	QQQQ	5,277,773	01/1994	Murphy	204	168	
	RRRR	5,328,577	07/1994	Murphy	204	168	
	SSSS	5,336,825	08/1994	Choudhary et al.	585	500	
	TTTT	5,472,581	12/1995	Wan	204	157.6	
	UUUU	5,498,278	03/1996	Edlund	96	11	
	VVVV	5,510,550	04/1996	Cheung et al.	585	259	
	WWWW	5,518,530	05/1996	Sakai et al.	96	11	
	XXXX	5,583,274	12/1996	Cheung et al.	585	261	
	YYYY	5,585,318	12/1996	Johnson et al.	502	330	
	ZZZZ	5,587,348	12/1996	Brown et al.	502	230	
	AAAAA	5,629,102	05/1997	Werth	429	17	
	BBBBB	5,675,041	10/1997	Kiss et al.	568	454	
	CCCCC	5,695,618	12/1997	O'Young et al.	204	157.43	
	DDDDD	5,714,657	02/1998	de Vries	585	310	

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	GGGGG	5,749,937	05/1998	Detering et al.	75	10.19	
	HHHHH	6,130,260	10/2000	Hall et al.	518	703	
	IIIII	6,323,247	11/2001	Hall et al.	518	700	
	JJJJJ	6,602,920	08/2003	Hall et al.	518	700	
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	LLLLL						
	MMMMM						
	NNNNN						
	OOOOO						
	PPPPP						

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